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PTO/SB/01 (10\_00)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>	<b>Attorney Docket Number</b>	15659ROUS01U
	<b>First Named Inventor</b>	Marthinus W. da Silveira
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	
	<b>Filing Date</b>	
	<b>Group Art Unit</b>	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing	<b>OR</b>	<input type="checkbox"/> Declaration Submitted after initial Filing (surcharge (37 CFR 1.16(e)) required)
	<b>Examiner Name</b>	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DIGITAL CONVERTIBLE RADIO SNR OPTIMIZATION

the specification of which

(Title of the Invention)

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checkign the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Applications Numbers(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	NO
			<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119 (e), 120, or 365 (c) of any U.S. or PCT application(s) listed below.

Application Numbers(s)	Filing Date (MM/DD/YYYY)	
10/307,624	12/2/2002	<input type="checkbox"/> Additional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

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— +


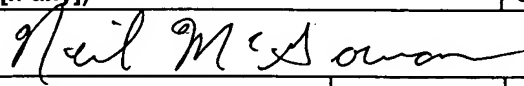
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## DECLARATION - Utility or Design Patent Application

Direct all correspondence to:		<input type="checkbox"/> Customer Number or Bar Code Label	<input type="text"/>	OR <input checked="" type="checkbox"/> Correspondence address below
Name James A. Harrison				
Address P.O. Box 670007				
Address				
City Dallas		State TX	ZIP 75367	
Country USA		Telephone (214) 902-8100		FAX (214) 902-8101
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.c. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any])		Family Name or Surname		
Marthinus W.		da Silveira		
Inventor's Signature				Date Sept 9/03
Residence: City	Nepean	State	Ontario	Citizenship South Africa
Country		Canada		
Mailing Address 7 Cloutier Street				
Mailing Address				
City	Nepean	State	Ontario	Citizenship Canada
ZIP		K2J4T4		
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any])		Family Name or Surname		
M. Neil		McGowan		
Inventor's Signature				Date Sept 9/03
Residence: City	Stittsville	State	Ontario	Citizenship Canada
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City	Stittsville	State	Ontario	Citizenship Canada
ZIP		K2S1G8		
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheets(s) PTO/SB/02A attached hereto.				

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	§	Attorney Docket No. 15659ROUS01U
da Silva, et al.	§	
	§	
Serial No.: n/a	§	Group Art Unit: n/a
	§	
Filed: Herewith	§	
	§	Examiner: n/a
Title: Digital Convertible Radio SNR	§	
Optimization	§	
	§	

Commissioner for Patents  
Alexandria, VA 22313-1450

POWER OF ATTORNEY FOR  
PATENT APPLICATION

Nortel Networks Limited, a Canadian corporation having principal offices at:

**Nortel Networks Limited**  
**2351 Boulevard Alfred-Nobel**  
**St. Laurent, Quebec H4S 2A9, Canada**

the owner by assignment of the entire right, title and interest to the invention for DIGITAL CONVERTIBLE RADIO SNR OPTIMIZATION, by Marthinus W. da Silva and M. Neil McGowan, and in and to the application for patent and any Letters Patent, whether domestic or foreign, that may issue thereon, by virtue of the assignment (check as applicable):

☒ Recorded Concurrently Herewith  
☐ Recorded on \_\_\_\_\_  
☐ Recorded at Reel \_\_\_\_\_ Frame \_\_\_\_\_  
☒ Copy Attached

hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

James A. Harrison, Registration No. 40,401  
Bruce E. Garlick, Registration No. 36,520

its attorneys with full power of substitution and revocation, to prosecute all domestic and foreign patent applications, including PCT and EPO filings, relating to said invention and to transact all

Rev. and Approved  
By PPG July 24, 2002

business connected therewith, including signing of all papers on its behalf and making alterations and amendments.

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above, and is authorized to act on behalf of the Assignee.

NORTEL NETWORKS LIMITED

A handwritten signature in dark ink, appearing to read "Randall W. Mishler", written over a horizontal line.

RANDALL W. MISHLER  
Senior Patent Attorney

Sept. 9, 2003  
Date

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**NETWORKS**

www.nortelnetworks.com

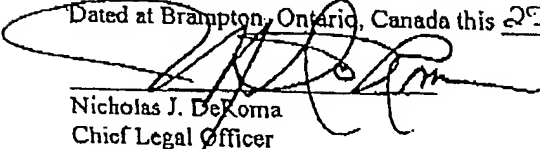
Nicholas J. DeRoma  
Chief Legal Officer

**AUTHORITY FOR PROSECUTION OF PATENT, TRADEMARK AND COPYRIGHT  
APPLICATIONS AND RELATED MATTERS**

Pursuant to a resolution of the Executive Committee of the Board of Directors of Nortel Networks Limited, adopted on February 8, 1984, I hereby designate those individuals providing intellectual property law services for Nortel Networks Limited, identified below, as having the authority to execute, sign and deliver in the name and on behalf of the Corporation, by their sole signature, any and all documents concerning the appointment of patent agents and trademark agents, and any and all documents relating to the obtaining of patents, industrial designs, trademarks and copyrights, coming before any government registry office or other competent authority having jurisdiction with respect to such matters. The individuals include:

Holmes Anderson  
Chris Cianciolo  
John Crane  
Angela De Wilton  
J Erik Fako  
Jean-Pierre Fortin  
Tom Gigliotti  
Jaspreet Harit  
Paul Hashim  
Dennis Haszko  
Eric Jensen  
William Junkin  
Lindsay McGuinness  
Barbara McKenzie-Wardell  
Jeff Measures  
Allan Millard  
Randall Mishler  
Russell Todd Morgan  
Neil Mothew  
Kevin Smith  
John Vynalek  
Richard Weiss  
Stuart Wilkinson  
John Richard Witcher II

Dated at Brampton, Ontario, Canada this 25<sup>th</sup> day of February, 2002.

  
Nicholas J. DeRoma  
Chief Legal Officer